

APPENDIX

Changes to Claims:

Claims 11-20 are added.

The following are marked-up versions of the amended claims:

4. (Amended) A stepping motor according to any one of claim ~~1s-1 to 3~~, wherein the arc-shaped deformation preventing groove is provided along the circumference at the side end contacting the base to which the stepping motor is mounted.
5. (Amended) A stepping motor according to any one of claim ~~1s-1 to 4~~, wherein the rotor is provided opposing the stator magnetic poles on a rotor yoke secured to the rotating shaft and a notch is provided in the rotor yoke in order to leak magnetism of the rotor,
further comprising a leakage flux detector for detecting leaking magnetic flux from the rotor, the leakage flux detector provided in a position opposing the notch.
6. (Amended) A stepping motor according to any one of claim ~~1s-1 to 5~~, further comprising a leakage flux detector for detecting changes in magnetic poles, the leakage flux detector provided on a cylinder end surface of a cylindrical permanent magnet provided in a cylindrical shape opposing the stator magnetic poles on the rotor yoke secured to the rotating shaft.
7. (Amended) A stepping motor according to claim 5-~~or~~-6, further comprising a rotary polygon mirror secured to the rotating shaft which is rotatably provided through the cylindrical bearing holder vertically mounted on the base to which the stepping motor is mounted, which rotates along with the rotating shaft, the rotary polygon mirror provided on

- the outer periphery of the rotor yoke with each mirror surface corresponding to a magnetic pole of the rotor of the stepping motor.